

**METHOD FOR IMPROVED PRODUCTION OF GRAFT POLYMERS**

**ABSTRACT OF THE DISCLOSURE**

A process of producing a graft polymer of the ABS type by the emulsion method is disclosed. In the process wherein 5 to 95 % by weight of a monomer mixture that contains A) 50 to 99 parts by weight of at least one vinyl aromatic compound and B) 1 to 50 parts by weight of at least one copolymer is polymerized in the presence of C) 95 to 5 % by weight of one or more graft substrates having a glass transition temperature  $< 10^{\circ}\text{C}$ , the improvement includes monitoring continuously in the course of the reaction the Raman spectra of the reaction mixture, determining deviations from the specified desired course of the reaction and making corresponding adjustments.